

#11

1638

RAW SEQUENCE LISTING

DATE: 09/10/2001

PATENT APPLICATION: US/09/578,827A

TIME: 15:15:08

Input Set : A:\5914-078-999.txt

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5 <110> APPLICANT: Benfey, Philip
7     Helariutta, Yrjo
9     Fukaki, Hidehiro
11    Nakajima, Keiji
15 <120> TITLE OF INVENTION: SHORT-ROOT GENE, PROMOTER, AND USES THEREOF
19 <130> FILE REFERENCE: 5914-078-999
23 <140> CURRENT APPLICATION NUMBER: 09/578,827A
25 <141> CURRENT FILING DATE: 2000-05-24
29 <160> NUMBER OF SEQ ID NOS: 17
33 <170> SOFTWARE: PatentIn version 3.0
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118 aacggcgctc catcggatga tgaaagagat cggaaaccga atggagaaat tcgctaggct 2160
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163 Thr Thr Gly Ser Pro Gln Thr Ala Tyr His Tyr Asn Phe Pro Gln Asn
164 35 40 45
166 Asp Val Val Glu Glu Cys Phe Asn Phe Phe Met Asp Glu Glu Asp Leu
167 50 55 60
169 Ser Ser Ser Ser Ser His His Asn His His Asn His Asn Asn Pro Asn
170 65 70 75 80
172 Thr Tyr Tyr Ser Pro Phe Thr Thr Pro Thr Gln Tyr His Pro Ala Thr
173 85 90 95
175 Ser Ser Thr Pro Ser Ser Thr Ala Ala Ala Ala Leu Ala Ser Pro
176 100 105 110
178 Tyr Ser Ser Ser Gly His His Asn Asp Pro Ser Ala Phe Ser Ile Pro
179 115 120 125
181 Gln Thr Pro Pro Ser Phe Asp Phe Ser Ala Asn Ala Lys Trp Ala Asp
182 130 135 140
184 Ser Val Leu Leu Glu Ala Ala Arg Ala Phe Ser Asp Lys Asp Thr Ala
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187 Arg Ala Gln Gln Ile Leu Trp Thr Leu Asn Glu Leu Ser Ser Pro Tyr
188 165 170 175
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194 195 200 205
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205 His Ile Val Asp Ile Ser Ser Thr Phe Cys Thr Gln Trp Pro Thr Leu
206                260                265                270
208 Leu Glu Ala Leu Ala Thr Arg Ser Asp Asp Thr Pro His Leu Arg Leu
209                275                280                285
211 Thr Thr Val Val Val Ala Asn Lys Phe Val Asn Asp Gln Thr Ala Ser
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214 His Arg Met Met Lys Glu Ile Gly Asn Arg Met Glu Lys Phe Ala Arg
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217 Leu Met Gly Val Pro Phe Lys Phe Asn Ile Ile His His Val Gly Asp
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221                340                345                350
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227    370                375                380
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233                405                410                415
235 Trp Phe Arg Val Cys Phe Glu Ser Trp Glu Glu Ser Phe Pro Arg Thr
236                420                425                430
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241 Asp Leu Val Ala Cys Glu Pro Ser Asp Ser Thr Glu Arg Arg Glu Thr
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244 Ala Arg Lys Trp Ser Arg Arg Met Arg Asn Ser Gly Phe Gly Ala Val
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288 gaaaaccgct tcatTTTTct tgtatttTgc tgaggttagg attagaccat tggttgttac 600
290 tttcgaattc ttccaattta gttgttactt tcgaattctt ccatctctta' gtttactaaa 660
292 acaaacttat gtgccccata tttctccaac aatttgttga gtggtagctt acgttttact 720
294 gtatacgctt ttgcaggtta tatcagcaca accattaatg atggcccggg atgtttgatg 780
296 ctaagatgtc ctgaccatc ttgtcttTgt gctgttggTc atgatatggT tgacaaatta 840
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455 Asn His Gly Val Gln Trp Pro Pro Leu Met Gln Ala Leu Ala Asp Arg

456 35 40 45

458 Tyr Pro Ala Pro Thr Leu Arg Ile Thr Gly

459 50 55

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